



Electrical Engineering Section, Design Branch, Engineering Division

As part of the Omaha District's Engineering Division Design Branch, the Electrical Engineering Section provides engineering consulting services for military and civil works projects.

Mission

The mission of the Electrical Engineering Section is to meet the electrical engineering requirements of the Omaha District and the military and civil works customers it serves, using sound engineering judgment and incorporating state-of-the-art technologies in a timely and cost-effective manner.

Capabilities

Our staff of electrical engineers provide services in the following areas:

Studies

- o Electrical base-wide distribution studies
 - » Load flow
 - » Protection/coordination
- o Lighting studies
 - » Interior spaces
 - » Exterior
 - Security lighting (weapon storage areas, entry control points)
 - Athletic fields
 - Parking areas
 - » 1391 generation, customer criteria documents, feasibility studies
 - » Reach-back support for Iraqi Districts
 - » Planning Charrettes
 - » Design charrettes

Design Services

- o Exterior electrical
 - » Electrical distribution
 - Overhead
 - Underground
 - » Substations
 - » Lightning protection
 - » Cathodic protection (to minimize the rate of electrochemical erosion)
 - » Lighting (security, sports, parking, etc.)
 - » Base-wide energy management control systems
 - » Base-wide fire alarm systems
 - » Base-wide mass notification systems
 - » Generators
 - » Anti-terrorism/force protection
- o Exterior communications systems
- o Interior electrical
 - » Lighting
 - » Power
 - » Controls
 - » Fire alarm/suppression
 - » Grounding systems
 - » Communications



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Design Services, continued

- o Closed circuit television/local area network support systems
- o Energy management control systems
- o Uninterruptible power systems
- o Emergency generators
- o Mass notification systems

Recent In-house Projects

- o Combined Arms Training Facility/Urban Assault Course, Fort Carson, Colo.
- o Relocate Runway Criteria Package, Iwakuni, Japan
- o Barracks-O'Connell Boulevard, Fort Carson, Colo.
- o Runway Replacement, Offutt Air Force Base, Omaha, Neb.
- o Access Control Equipment Program, Various Bases
- o Hydrant Fueling System, Offutt Air Force Base, Omaha, Neb.
- o Construct Fuel Farm/Distribution, Bagram, Afghanistan

For more information, please contact the Chief of Electrical Engineering Section at 402-995-2139.



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